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MEMORANDUM FOR : Chief, Support Staff

SUBJECT : A Recommendation for the Location of the
Dual Stereo Comparator25X1
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1. A meeting was held December 4 to discuss the pros and cons and make recommendations for the location of the Dual Stereo Comparator. Those in attendance were [redacted] TID; [redacted] TDS; [redacted] consultant engineer to NPIC; [redacted] RECD/OL; and [redacted] Logistics Branch. [redacted] chaired the meeting.

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2. [redacted] opened the meeting by stating that a decision had to be reached as to whether the dual comparator could or could not be located in the old clean lab of TID on the second floor, if not why not and which alternate location in the building would meet the site requirements for the installation. This opening statement was based on the latest information available from the [redacted] Company and our consultant engineer regarding the instrument as to size (dimension), total weight, vibrations contained in [redacted] the length of time for site preparations, operational down time to the remaining portion of the TID operation during the construction, construction of site preparations on the second floor, and the low weight capacity of the elevators [redacted] which prohibits the raising of excessive weights to upper floor levels.

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3. [redacted] stated a rumor that more than one instrument may be installed [redacted] was originated by himself on the probability that DIA may wish to procure such an instrument to be housed in the building, and that he could not foresee NPIC procuring more than one instrument for their own use within the next four to five years.

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4. [redacted] who represented [redacted] Chief of TID, stated that they had met [redacted] prior to attending this meeting and that it was his desire that the instrument

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be placed on the first floor [] due to the heavy weight (28,000 lbs.) of the instrument, which, according to [] made the floor loading capacity on the second floor marginal. [] stated that it would be desirable at the first floor level [] to prepare a site for part or all of the remaining mensuration equipment presently housed in the TID area, second floor.

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5. [] discussed at great lengths the difficulties that would be encountered in a site preparation for this instrument on the second floor. Again, the weight factor was a major problem. A vibration test was recently conducted in this area and the results turned over [] for analysis. Their findings have dictated that a three foot high false floor would be required to support the equipment. Since the height of the second floor (from slab to slab) is 11 feet, 3 inches, and that lights and other utilities would be required in the ceiling, the unobstructed room height for the equipment, and personnel, would be approximately 7 feet. This does not lend itself to the most desirable human factor conditions. Another reason for not placing this equipment on the second floor would be that approximately 400 square feet of floor space would be lost to operational use in that this amount of space is required to house air handler and environmental equipment necessary for the operation of the instrument (This equipment will still be required on the first floor location, but in this area it can be located []

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6. [] estimated the cost of a site preparation on the second floor [] Off the record he stated (this is an assumption) that a first floor location could probably save the Center [] by a substantial reduction in the size, design, and fabrication of vibration dampers and in the actual site preparation. This statement was based on his belief that the existing floor slab could be breached and piling be driven into the packed clay underneath the first floor slab to be used as footing for the pads of the instrument. This would isolate the equipment from any building vibration. Prior to verifying this statement new vibration tests will have to be conducted on the first floor.

7. An open discussion concerning the Center's operation of the remaining portion of the old TID clean room during construction phase (estimated five months or more) revealed that NPIC cannot afford to be without the services of the mensuration equipment for any period of time, therefore, this statement alone should negate

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the installation of this equipment on the second floor.

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8. The question was asked, why were we so long in realizing that this instrument if installed on the second floor would present a problem? [] stated that the first phase of the present contract [] was a design phase and until vibration tests of the area on the second floor were made and analyzed there was no way of knowing what problems would be encountered in the final instrument design. The first phase (design phase) of the contract is due for completion the first part of January 1968. [] also stated that the location for this piece of equipment must be decided upon at the earliest possible date (several weeks) in order that the final design may be reached without an overrun to the contract. In addition he stated that 70 per cent of the personnel

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[] are engaged in the design phase of our instrument. If time is lost due to our inability to successfully locate a site for this instrument [] the services of some personnel will be lost [] Their services may be required for some redesign phase of the instrument depending on the location chosen. He further stated that this instrument is a very complex instrument and that to change the parameters of design would be quite costly.

9. As a result of this meeting, the following recommendations were made:

a. It was the unanimous consensus of those present that the gymnasium be chosen as the site for the dual comparator. This is the only area in [] that will meet requirements for ceiling height, accessibility, the isolation of support environmental equipment with a minimum effort of demolition, rerouting of duct work, and a minimum dollar value, and still afford no disruption to the operations of TID during site preparations.

b. It was recommended that consideration be given to preparing space adjacent to the dual comparator on the first floor and move part or all of the mensuration equipment of TID to that location. This suggested move would enhance the mensuration capabilities for NPIC by affording a cleaner and more stable environment for equipment operation; secondly, this move would free space for the expansion of the computer operation which presently is marginal both for additional equipment and environmental conditions necessary for their successful operation.

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10. For those reasons stated herein, I endorse the recommendations contained in paragraphs 9 a and b above.



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Distribution:

Orig & 1 - Addressee

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BSS/LB/SS/NPIC [redacted] (5 December 67)

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